THE TECH

VOL. XXVII. No. 67 BOSTON, MASS., MONDAY, APRIL 6, 1908 PRICE THREE CENTS

CIVIL ENGINEERS WIN EASY FIRST IN INTER-COURSE RUN.

HOWLAND APPROACHES RECORD.

Many Courses Combined. High Wind Makes Hard Running. MacKenzie A Good Second.

Course I won the intercourse cross country race Saturday afternoon with ease, scoring only 20 points to the 29 scored by the team made up of Courses V, VI, and X. Only ten courses were represented and before the start four teams were formed, Courses I and XI, Course II, Courses V, VI, and X, and Courses III, IV, VIII, and XII being the teams.

Howland led off at a fast clip with Stephenson, Batchelder and MacCarthy following in order. There was a high wind quartering for most of the distance. All of the men finished but Niles 1911.

Howland came close to his old record of 24m 23s made against Harvard, doing the distance Saturday in 25m 23s.

After the race the 1911 cross country men who are to run in the class race elected J. D. Mackenzie, captain.

The summary:—

1. H. H. Howland 1908, I 25m 23s
2. J. D. MacKenzie 1911, XII 26m 10 4-5s
3. J. F. MacCarthy 1909, I 26m 20 4-5s
4. J. N. Stephenson 1909, X 26m 21 3-5s
5. C. P. Eldred 1911, VI 26m 58s
6. C. L. Batchelder 1909, I 27m 9 4-5s
7. R. Ellis 1909, VIII 27m 32 3-5s
8. L. O. Mills 1910, VI 28m 1 4-5s
9. B. C. Huber 1910, III 28m 34s
10. H. I. Pearl 1910, I 28m 42s
11. E. S. Russell 1910, II 28m 53s
12. H. G. A. Black 1910, VI 29m 8s
13. C. E. De Witt 1911, II 29m 9s
14. C. Jones 1910, II 29m 46s
15. G. H. Magee, II 30m 15s
16. A. R. Knipp 1909, VI 32m 19s
17. J. A. Bigelow 1911, IV 32m 40s
18. H. F. Foster 1909, XI 32m 41 3-5s

Won by team of Courses I and XI, 20 points; team of Courses V, VI, and X, 29 points, second; team of Courses II, IV, VIII and XII, 35 points, third; Course II, 53 points, fourth.

SOPHS DOWN SENIORS.

Took Only Six Innings to Down Veterans-Score 10 to 5.

In a six inning game the sophomores easily defeated the seniors by the score of 10 to 5 at the Field last Saturday. The wind was very strong and proved a great obstacle to the players. The sophomore team was made up of Billings ss, O'Hearn 2, Greene 1, Dillon 3, Jones cf, Nichols c, Horn p, Adams rf, and Harrison lf. The seniors who played were Van Inwegen p, Pierce lf, Boylston rf, Williams c, Bridgman p, Myers 1, Stanley 2, Barton ss, Daley cf, and Schneider 3 (captain). D. Bowman 1908, umpired the game.

HIBBARD NAMES EMERSON 1890.

Mayor Hibbard tendered to Guy C. Emerson 1890, Saturday, the position of superintendent of streets declined by Harrison P. Eddy, consulting engineer of the Finance Commission. It is understood that Mr. Emerson will accept, and if so his name will be sent to the board of aldermen on Monday.

Mr. Emerson was a special in Course I while at the Institute, and for several years was employed by the Boston Transit Commission. Under Mayor Hart's last administration he served as deputy superintendent of sewers. Since 1901 Mr. Emerson has been in the employ of the interior department of the United States government, in charge of the irrigation and reclamation work in Wyoming. Last fall he completed there the second longest finished tunnel in the world, the Corbett tunnel, which carries water for irrigation purposes under the mountains. He is a member of the government civil service board for the State of Wyoming.

PRETTY GIRLS IN CAST AND CHORUSES OF SHOW,

BELDEN EXCELS AS USUAL.

Large Number of Applications For Seats Received.

"Fine feathers make fine birds" and the cast and chorus of the chorus are fine birds when they get on their costumes. The universal verdict of all who have seen the pictures is that this year's chorus is the prettiest that the Show has ever had. Belden, as "Helen Sealytle" is better than ever, and will make a hit in his songs. Jacobs and Herold, too, are "queens" and are good singers.

There are a number of good choruses this year, the policemen, surveyors, nursemaids, dancers, besides the regular bevy of college girls and men. There are many dances, both by principals and chorus. Malcolm, Watching, and Kennison have a dance in connection with their trio which is a winner, and Hield is even better than he was last year. Schofield, who was in "The Freshman," has a part which seems to fit him, while the minor parts are well cast, and the dialects are good.

C. J. BELDEN 1909.
As "Helen Sealytle" in Tech Show.

About 1800 seats for the Boston performances have been applied for, and about sixty for Northampton. Most of those who applied for Northampton seats, however, prefer to go up earlier than the cast and come down later, although the reason for this is not known.

Y. M. C. A. BALLOTS OUT.

Ballots for the officers to serve the Technology Y. M. C. A. next year are out today. The nominating committee presents the following names: For president, T. H. Atherton, Jr.; for vice-president, M. M. Davis 1909 and B. S. Bouebrake 1909;; for secretary, R. E. Doane 1909 and A. E. Thornley 1909; for treasurer, Russell Mack 1910 and G. N. Brooks 1909. Anyone who has paid his dues and does not receive a ballot today should get it from Mr. Brock in Engineering B any afternoon. Persons who wish to become members may be enrolled by paying the annual dues of $1.50 to J. N. Stephenson 1909 or to Mr. Brock. The ballots will be due at the weekly meeting in Trinity Church Library Thursday at 1.30 P. M.

GYM TEAM PERFORMS EXCEPTIONALLY WELL.

BOXING A FEATURE.

Courtney Swings Lighted Indian Clubs in the Dark.

Good performances were the rule at the exhibition of the Gym team Friday night. The gymnastic work was surprisingly good but the running of the meet itself was very poor. The events went off slowly and did not seem to have been at all carefully arranged beforehand.

The stunts on the parallel bars and the horizontal were the best exhibitions of gymnastic skill. In these events Schobinger, Darrow, Howell and Gott did the best work. Smith did some very excellent work over the parallels. Carey was the star on the side horse.

The swinging in the dark of lighted Indian clubs was a very popular feature of the program. It was done very cleverly by B. F. Courtney 1910.

The biggest success from a humorous point of view was a blindfold boxing match between G. Schobinger 1908 and F. A. Burton 1910. There were also three-round bouts between Snyder and Gott, Billings and Breyer, and Rockwell and Hurley. There was a fencing match between R. Gallegos and Altamarino. Wrestling was done by Gilkison and Jenkins, and Coleman and Jenkins.

The make-up of the team was H. R. Howell 1910, (captain); H. S. Smith 1911, G. Schobinger 1908, B. Darrow 1910, H. S. Gott 1910, B. F. Courtney 1910, N. L. Coleman 1909, M. Coffin 1911, C. W. Wilson 1910, R. L. Carey 1909, E. Kloberg 1908, H. Sargent 1911.

The officials were: Boxing referee, W. M. Van Valkenburgh 1908; wrestling referee, W. Towne; timer, H. H. Bennett 1909.

SPEPHENSON CAPTAIN.

Last Friday's meeting of the Hare and Hounds Club resulted in the election of J. N. Stephenson 1909 chase-captain, and C. P. Eldred 1911 as assistant chase-captain.

These offices correspond to those of secretary and treasurer. Eleven men attended the meeting. Captain Ellis expressed the desire to hear from the men who contemplate running in the freshman-sophomore cross-country race on April 25, in which numerals will be awarded.

COURSE II HAS STARTED.

Thesis Work Going Well. One Big Test Reported.

Several noteworthy tests of power stations will be carried out this year by the seniors in the mechanical engineering department as subjects for thesis work. The only one so far reported is that being carried on by Carl H. Bangs and S. F. Kedy which has for a title "Economy Tests of a 2000 Kilowatt Curtis Turbine at the Quincy Power Station of the Old Colony Street Railway."

In this course F. K. Belcher and Samuel H. Daddow are studying the carburation in automobile engines. Both men have long been interested in automobile work, each has run and owned machines, taking the matter up from the practical as well as the theoretical side.

Philip C. Brown has taken up a mathematical study of concrete beams, making a study for the proper formulas and calculations for reinforced concrete. The only other investigation so far reported is that being carried on by H. L. Carter and C. N. Cochrane on the friction losses in the rubber hose as used in vacuum cleaners. The Institute has a very complete outfit for this investigation.

SPINDLE AND LOOM OF CIVILIZATION.

IS MECHANICAL ENGINEERING.

J. P. Tolman 1868 Tells Engineers To Be Dictionary of Facts.

J. P. Tolman 1868 gave a talk on "Insurance" at the annual dinner of the Mechanical Engineering Society at the Copley Square Hotel Friday evening.

The other speakers were Professors Lanza, Schwamb, Haven, and Peabody. In introducing Prof. Lanza, S. M. Daddow 1908, toastmaster, said that when Prof. Lanza wrote his notes on whirling axes only he and the Lord knew what it was all about; and that when he tackled the theory of elasticity the Lord had to drop out.

Concerning mechanical engineering, Mr. Tolman said:—"Mechanical engineering has to do with the fashioning of material things for man's use. It is the spindle and power loom of civilization and is based on observation and discussion. Make yourself a dictionary of facts. Do not spend too much time in sighing for more outside activities. Remember you are having the benefit of a lot of experience, gathered together to meet the case of the general student rather than the individual."

Prof. Lanza explained how the faculty committee on appointments tried to supply capable students with positions after graduations, and also stated that times of depression would not affect a good student greatly in getting a position.

Prof. Schwamb spoke on the importance of taking a long look ahead in engineering design, and Prof. Peabody advised having an avocation as well as a vocation, urging the policy of "work while you work, play while you play."

WILD WEST AT TECHNOLOGY CLUB.

Mr. Seth K. Humphrey will give a smoke talk on "Western Experiences" on the tenth evening of the season at the Technology Club Tuesday. He will present an account of the opening of the Cherokee strip, Kansas cyclones, and a real "Wild West" show in Indian Territory, with many slides.

PROF. SWAIN SAYS REBUILD.

Professor George F. Swain, head of the civil engineering department, has been called in by the Essex county commissioners as expert on the old "chain bridge" that connects Newburyport and Amesbury, and has given advice in the commissioner's report which advocates very great repair or a new structure.

ADDITIONS MADE TO COLLECTIONS.

Mineralogical and Petrographical Specimens Received.

During the past year, the mineralogical and petrographical collections in the geological department have received many specimens, collected in part by members of the instructing staff and in part gifts from graduates and friends of the Institute.

A fine suite of specimens, illustrating the minerals and ores of Cobalt and Butte, is perhaps the most important of these additions. Over two tons of specimens have been received.

Such gifts are encouraging to the department, for they indicate a real interest on the part of graduates and friends, and not only make unnecessary the purchase of materials from dealers at an exorbitant figure, but furnish specimens better adapted for use in the practical instruction of mining students.

It is hoped by the department that in the future the graduates and friends of the Institute will contribute even more generously than in the past.

(Continued on page 3.)

THE TECH

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LEARN FROM MISTAKES.

A common saying is that a man can learn more from his mistakes than from his successes and can also learn a great deal from the mistakes of other people. At the Institute a man has plenty of chance to learn from his own mistakes if he wants to. It is less easy to learn from the mistakes of others. In some cases men are encouraged to follow the work of their class-mates.

In chemistry freshmen are given not all the same experiment so that a man can have the benefit of both his own experience and that of his neighbor who is working on something else.

In the architectural drawing rooms the atelier spirit is encouraged. Men from the second, third, and fourth years work together in the same drawing room. The younger fellows do simple work for the older ones and in return receive advice and help. Juniors say that they have received as much benefit from older students in this informal way as from any formal instruction. Under no close restrictions, the men work for the joy of working. After watching men toiling away in some of the engineering drawing rooms, stepping over to the architectural department, where men really seem to enjoy their work, is like visiting another country.

Of course moving about to see what some one else is doing takes time. A man who sticks closely to his own work can probably cover more square inches of drawing paper per day than the man who looks around. The latter on the other hand stands less chance of getting mental cramp and has the great advantage that he is able to learn from other people's mistakes.

THE PASSING.

The leaving of Mrs. King marks the passing of a distinct institution at Technology, and as much as all feel sorry to see her go, those who realize what the movement now going on really means, feel that it is the inevitable thing in the development of the Institute and its social life. With the passing away of so good a lunch-room as managed by Mrs. King many doubtless have apprehensions, well shown in the communication below, as to the future eating place for the Institute students and instructors.

Those who fear as to the quality of food and lunch to be offered in the New Union, are to be assured by all who are to have anything to do with the management, that the quality of the food in the new lunch room will be as good as in the old eating place. The only difference will be the method of serving, and it is probable that the dairy lunch service will be given to those who wish it. A few dishes of high quality will be offered rather than a lot of fancy-named dishes. Added to the better facilities for serving and cooking the food, will be a greater opportunity for intercourse among the teachers and students in the reading-room of the Gilley Memorial Library, and in the smoking room. While perhaps losing the simplicity of the old dairy lunch form, there will be an immense gain in many directions, and with the Institute authorities in charge of new lunch room, backed up by the Corporation, there is no need of fear as to the quality of food.

As to Mrs. King's resignation, all who knew her and of her service, cannot but feel sorry to see her go, but as has been said, the new turbine had to go in where the lunch room now is, and a respectable Union for the whole student body had to come.

COMMUNICATION.

The Editor of The Tech:

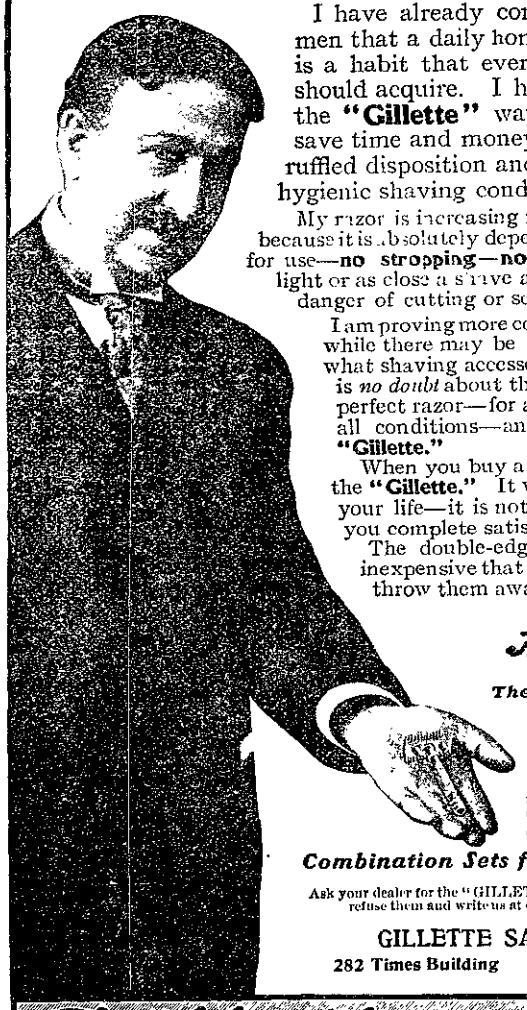
I should like to know if I am quite without sympathizers among the teachers or the students, in my surprise and disappointment at the announcement—as if it were a settled and inevitable thing—that the present lunch room is to be abolished and no provision made for a similar dairy lunch in the new quarters.

However efficient the Union Lunch may be or continue, in its kind, the other lunch-room is of different kind and is in no way superseded by the Union Lunch. As to neighboring dairy lunches, there is none and there is likely to be none where we should feel quite free to get or to be able to get as good food as we now can at the lunch-room, within the very moderate sum that most of us choose to expend for lunch. The abolition of the lunch-room appears to me a most unfortunate narrowing of our choice,—already enough limited,—of reasonably attractive and informal places wherein to obtain wholesome food at small cost. If any considerable number of teachers or students would, by this abolition, be driven to public restaurants, we should lose from our Tech life a pleasant and, in its quiet way, a very profitable intercourse among teachers, among students, and between both.

H. L. SEAVER.

Purdue University has initiated a movement for the federation of Catholic clubs in which Technology will probably join. The clubs of other colleges invited are those of Columbia, Harvard, Yale, Dartmouth, and Boston University.

"Shave Yourself"



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COPPER BEST CONDUCTOR.

Mr. T. W. Sprague gave the second of his series of interesting talks on "Electricity in Mining" Friday afternoon in 2 Rogers.

The relative qualities of aluminum and copper as conductors of electricity were touched upon by Mr. Sprague. The speaker stated that aluminum is not as good as copper while copper is so cheap as it is at present. The main subject taken by Mr. Sprague was that of electric locomotives used in mine work. The talk was illustrated by lantern slides.

There will be two more of these lectures, one on Wednesday and one on Friday of this week.

HOW TO LIVE CHEAPLY.

Mrs. Ellen H. Richards, instructor in food, air, and water analysis, is to deliver a lecture on "The Costs of Living and How to Control It" at the next meeting of the fraternity of churches which will be held at the Unitarian Church in Jamaica Plain on April 29.

ADDITIONS MADE.

(Continued from page 1.)

To the equipment of the mineralogical and petrographical laboratory has been added a large polarizing microscope. This instrument is especially designed for refined work in mineralogical and petrographical research and is a distinct addition to the research equipment of the department. Eventually several special attachments will be added to this microscope.

Among the gifts of fossil collections received by the geological department during the past year, Dr. Hervey W. Shimer wishes to acknowledge especially the large collection of tertiary shells from Plum Point, Maryland, given by Mr. Fred L. Franks, a former student of the Institute. Another gift by the Philadelphia Academy of Sciences consists largely of lower tertiary forms. These collections fill in a gap in the index fossil series and also give material for research to graduate and fifth-year students.

The book cataloguing of the fossils of the department is almost complete and will soon be transferred to a card system for greater convenience in use. This will be an important aid to both instructors and students.

BIOLOGICAL ALUMNI PLACED.

1905 Grad Goes to Orange, N. J. Another to Washington.

Mr. Selskar Gunn, a graduate of the biological department in the class of 1905, has resigned his position as assistant bacteriologist of the State Board of Health of Iowa to become Executive Officer of the Board of Health of Orange, N. J.

Another member of the same class and a graduate of the same department, Mr. Henry S. Ayers, formerly assistant in industrial biology in the laboratory of Mr. A. D. Little and more recently assistant to Dr. H. W. Marshall 1897, biology, has received an appointment as expert in dairy bacteriology, Bureau of Animal Industry, U. S. Department of Agriculture. He will leave in a week to begin his duties in Washington.

Mr. Carl S. Milliken, a graduate of the Institute from the Biological Department in 1889 and for some years professor of biology in Ripon College, Wisconsin, has been appointed professor of biology in Throop Polytechnic Institute, Pasadena, California.

COMMUNICATION.

To the Editor of The Tech:

It is very essential that the notice of some of the students of the Institute be called to the fact that there is a very helpful organization which is not getting their support. This organization is among the strong ones of the United States, and should by all means be kept in the place which it holds.

This organization is the M. I. T. Catholic Club. Its purpose is to provide means by which its members may be refreshed and rejuvenated after three weeks of strenuous work here at the Institute. This purpose is accomplished by holding meetings, once every three weeks. At these meetings very interesting speakers address the club on subjects which tend to educate and elevate the audience. The boys should not think that because the club is called the Catholic Club that only religion is preached at its meetings. It is supposed that each member gets this at his church, and needs none of it in these meetings.

(Editor's Note:—Owing to lack of space the above has been held for some time.)

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The Review aims to develop closer relations among Institute men and to stimulate their interest in the work of the College. It is in no sense an engineering magazine, but deals broadly with the problems of Technological Education and the responsibilities of the professional man.

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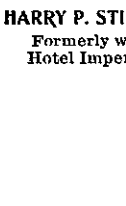

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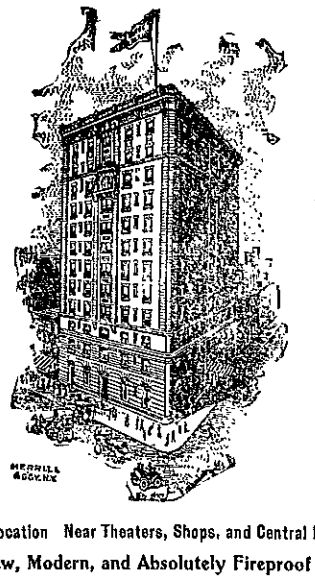

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SING AND PLAY DOWN TOWN.

At the invitation of Prof. Sedgwick, the Musical Clubs gave their last concert before Junior Week last night at the "Wells" Memorial. The audience, although more cosmopolitan than at most of the other concerts, applauded well and appeared to enjoy the pieces.

CALENDAR.

Monday, April 6, 1908.

4.00 P. M. Tech Show Chorus Rehearses at the Union.
4.15 P. M. Glee Club Rehearses at the Y. M. C. A. Auditorium.
4.15 P. M. Mandolin Club Rehearses in 31 Rogers.

Tuesday, April 7, 1908.

4.00 P. M. Track Team Reports at the Field.
4.00 P. M. Tech Show Principals Rehearse at the Union.
4.15 P. M. Banjo Club Rehearses in 33 Rogers.
7.30 P. M. Civic Club Meets in the Union.
8.00 P. M. Seth K. Humphrey Speaks at the Technology Club.

Wednesday, April 8, 1908.

4.00 P. M. Tech Show Chorus Rehearses at the Union.
4.00 P. M. Lecture on "Electricity in Mining" in 2 Rogers.

NOTICES.

TECHNIQUE RUSH.—Tickets for Technique Rush may be secured any morning in Rogers corridor.

CIVIC CLUB.—Session of the House of Representatives tomorrow evening at the Union. Everybody heartily welcome.

MANDOLIN CLUB.—Rehearsals will begin at 4 o'clock hereafter, on Mondays and Thursdays. All must attend in order to get ready for Spring Concert.

CLASSIFIED ADS.

Advertisements of this kind under different classifications are inserted at the rate of five cents a line, averaging six words to a line, payable in advance.

WANTED.—500 more subscriptions to Technique 1909.

Men who desire summer work at $2.50 per day, leave note for Woodruff at the Cage. ATTEND TO THIS NOW.

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CAMERA FOR SALE.—A Century 4 x 5 camera with unusual good lens, for sale. Exchange for Eastman Folding Kodak will be considered. Address Box 24, the Cage.

FOR SALE—Indian motocycle, new last September, run only 312 miles; guaranteed in perfect condition. $145 cash, cost $210. For further particulars leave note at cage for T. F. W. Meyer.

FOR SALE.—Technique 1909 has a few subscriptions to the Engineering Record, the Street Railway Journal, and the Electrical World, which will be sold at $2.50 as long as they last. Regular price $3.00.

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